

Global PV Storage Insights

Expected ROI of industrial energy storage project in Italy 2025



Overview

With the first auctions for procuring new storage capacity in Italy expected in the second quarter of 2025, Aurora Energy Research has analyzed the internal rate of return for projects supported by the Energy Storage Capacity Procurement Mechanism (MACSE) and found that in certain cases expected returns exceed 9%, providing a high level of revenue security. Is Italy stepping into a new energy era?

Italy is stepping into a new energy era with the MACSE auction in early 2025. Underpinning MACSE, or Meccanismo di Assegnazione Centralizzata per la Sostenibilità Energetica, is an ambitious plan to boost renewable energy integration and support up to 50GWh of energy storage by 2030 – a move to ensure Italy's energy security and sustainability.

Which European country has the most energy storage capacity in 2024?

Italy is arguably the most vibrant European energy storage market at present. It is forecast that Italy will deploy more energy storage capacity than any other European nation in 2024, reaching a total of 7.7GWh, which will equate to more than a third of the total storage capacity deployed in Europe this year (see chart below).

Is Italy a leader in industrial energy storage and commercial energy storage?

Accordingly, there is a growing market for industrial energy storage and commercial energy storage projects, positioning Italy as a leader in advanced Italy storage solutions and renewable energy Italy initiatives.

Why is Italy focusing on advanced storage technology?

In the broader EU landscape, where there's a collective push for 42.5% renewables in energy consumption by 2030, Italy's focus on advanced storage tech sets them apart from EU neighbours still heavily invested in traditional grid upgrades.

How much will Italy invest in utility-scale storage?

In support of these ambitious objectives, the Italian government recently received approval from the EU Commission for investment schemes aimed at developing at least 70 GWh of utility-scale storage—an initiative projected to attract over €17 billion in investments over the next decade.

Is MACSE a risk-averse investment in Italian energy storage?

From ESS News 2025 is set to see rapid growth in investment in the Italian energy storage sector, led by battery energy storage systems (BESS), with the implementation of MACSE. The eagerly anticipated procurement exercise will offer a stable, predictable premium over 15 years, making it particularly attractive for risk-averse investors.

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Energy storage safety and growth outlook in 2025

Looking ahead: Keys to success Several factors will define the energy storage market in 2025: the continued dominance of LFP chemistry and its downward impact on pricing, increased utility demand for integrated ...

How Italy is Driving BESS Investment

Conclusion The build-out of renewable energy storage is a fundamental step for Italy to achieve its 2030 decarbonisation targets. This build-out presents a challenge in the form of higher variable renewable electricity on ...

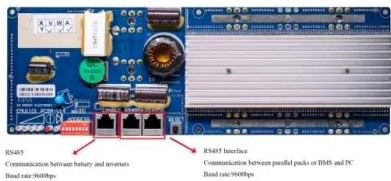


Energy Storage Rides a Wave of Growth but Uncertainty ...

The energy storage sector maintained its upward trajectory in 2024, with estimates indicating that global energy storage installations rose by more than 75%, measured by megawatt-hours ...

Key Trends Shaping Battery Energy Storage in 2025

Demand for energy storage continues to escalate, the global battery energy storage (BESS) landscape is poised for significant installation growth and technological ...

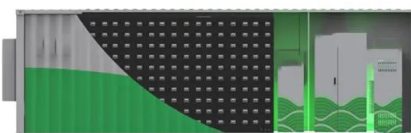
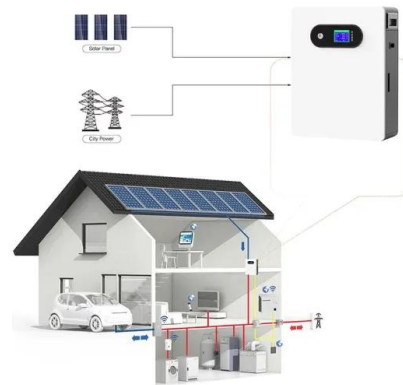


Energy Storage in 2025: What's Hot and What's Next?

The energy storage landscape is changing quickly as scientists work to create better and longer-lasting storage solutions. Experts are focused on improving smart grids to ensure that electricity systems work well and are.

Italy 2025 energy storage projects

Italy ES24 , Pan American Finance Spain-based Powertis partnered with German investment firm Aquila Capital to co-develop 421MW solar PV and 90MW energy storage projects in Italy in ...



Evaluating energy storage tech revenue potential , McKinsey

The revenue potential of energy storage technologies is often undervalued. Investors could adjust their evaluation approach to get a true estimate.

BESS in North America_Whitepaper_Final Draft

Battery energy storage - a fast growing investment opportunity Cumulative battery energy storage system (BESS) capital expenditure (CAPEX) for front-of-the-meter (FTM) and behind-the-meter ...



Italy to hold first energy storage capacity auctions in ...

Much larger projects are expected to come online in the next few years, driven by MACSE. Image: Trina Solar. Minister of the environment and energy security Gilberto Pichetto has signed a decree allowing Italy to proceed ...

Marketwatch: Italy 'most vibrant' European storage ...

Italy is forecast to deploy more storage capacity than any other European nation in 2024 - the European Commission has approved EUR17.7bn of storage funding under 'state aid' rules, while the MACSE storage procurement ...



How Italy is Driving BESS Investment

Conclusion The build-out of renewable energy storage is a fundamental step for Italy to achieve its 2030 decarbonisation targets. This build-out presents a challenge in the ...

Enfinity Global sells stake in energy storage projects in the US ...

Enfinity Global sold a stake in two energy storage projects in the US and Italy to Daiwa Energy & Infrastructure, enhancing grid resilience.



Europe accelerates renewable energy growth: 89 GW ...

The EMMES 9.0 data highlights significant growth in the energy storage sector: increased deployment rates, larger energy storage systems, and a rising trend of co-locating storage projects with renewables. From a policy perspective, new ...

Energy storage safety and growth outlook in 2025

Looking ahead: Keys to success Several factors will define the energy storage market in 2025: the continued dominance of LFP chemistry and its downward impact on ...



Backup power for Europe

In part 1 of our series on backup power in Europe, we named Italy as one of the most attractive European countries for BESS investments. The Italian electricity sector is ...

Germany: 'Europe's hottest energy storage market for ...

It is in some ways replicating the business model it has used in the UK, Italy, Australia and Sweden so far--entering equity investment and joint development agreements with local development partners to embark on large ...

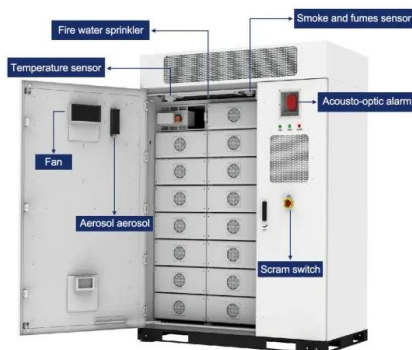


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Energy Storage Industry Trends: C& I Energy Storage Market Outlook to 2025

With the transformation of the global energy structure and the rapid development of renewable energy, the commercial and industrial energy storage (C& I ESS) market will see ...



Italy's EUR9.7 billion plan to boost renewables and reach ...

With these mechanisms, Italy aims to accelerate its clean energy transition while maintaining financial stability. How will the scheme help Italy expand its renewable energy capacity? The EUR9.7 billion state aid scheme ...

CIP Partners with GC Storage Services for 2.3 GW BESS Projects in Italy

Partnering with such an experienced investor like CIP allows us to deliver projects that set new standards for energy storage in Italy." CIP's fifth flagship fund, CI V, held its final ...



Copenhagen Infrastructure Partners partners with GC Storage ...

This collaboration targets large-scale facilities spread across the industrial north and more rural south of Italy, with the first project expected to begin construction in 2025. Strengthening ...

Global Energy Storage to Hit 94 GW in 2025, Says BNEF

The global energy storage sector is on track for another record year in 2025 as utility-scale projects expand into new regions. BloombergNEF (BNEF) forecasts that ...



ContourGlobal acquires energy storage projects in Italy ahead of ...

This transaction is complemented by the acquisition of a 98 MW project, in Southern Italy, from a pan-European renewable energy investment and development platform. ...

Enel Energy Storage and Battery Initiatives for 2025: Key Projects

Explore Enel's energy storage revolution! Discover how their strategic partnerships, investments, and innovative technologies are shaping a sustainable energy future.



Enabling renewable energy with battery energy ...

These developments are propelling the market for battery energy storage systems (BESS). Battery storage is an essential enabler of renewable-energy generation, helping alternatives make a steady contribution to the ...

'Italy is Europe's most interesting battery market'

Analyst Aurora Energy Research tells pv magazine 3 GW of battery energy storage systems (BESS) are at an advanced stage in Italy and expected online within three years.



Marketwatch: Italy 'most vibrant' European storage ...

Italy forecast to deploy more storage capacity than any other European nation in 2024 BW ESS, Emeren, Nuveen, Energy Vault, Octopus & Pacific Green among players to have made moves in Italian market in last year ...

Policy

In 2023, the commercial and industrial (C& I) energy storage sector saw a significant uptick in installations, marking a pivotal moment with 4.77 gigawatt-hours (GWh) of energy storage capacity added. This surge was ...



US Energy Storage Costs Expected to Decrease in 2025,

...

Lazard Reports on US Energy Storage Cost Reductions in 2025 According to Lazard, the levelized cost of storage (LCOS) for battery storage in the United States has ...

The Evolving Energy Storage Market in Italy

Italy's energy storage market stands at the forefront of the renewable energy transition, exemplifying the pivotal role of Battery Energy Storage Systems in achieving a sustainable and ...

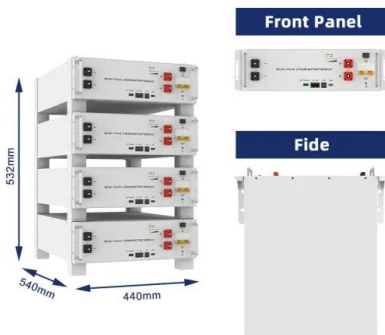


Understanding the Return of Investment (ROI) of Energy Storage ...

Several key factors influence the ROI of a BESS. This article explores the various factors influencing the return of investment of BESS.

Energy Storage Rides a Wave of Growth but Uncertainty Looms: ...

This report comes to you at the turning of the tide for energy storage: after two years of rising prices and supply chain disruptions, the energy storage industry is starting to see price ...



Italy: BESS wins nearly 600MW in 2027 capacity market

The BESS figure is a big jump on the CM auctions for 2025 and 2026 delivery years, which saw 80-90MW of BESS capacity awarded contracts in each. The CM and a new ...

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